IN THE CLAIMS:

The following is a complete listing of the claims in this application, reflecting all changes currently being made to the claims, and replaces all earlier versions and all earlier listings of the claims:

1. (currently amended): An image processing apparatus comprising:

extraction means for extracting a pixel signal of an image pickup means that
has a plurality of pixels, and for determining positional information of defective pixels
based on the pixel signal;

block-forming means for judging whether a plurality of the defective pixels are adjacent to each other on the basis of the positional information of the defective pixels, and encoding the adjacent defective pixels which are continuously located in one direction by using run-length codes which are information on the plurality's first coordinate values and lengths of the plurality of defective pixels, said block-forming means defining a block containing the adjacent defective pixels and peripheral, non-defective pixels for correcting the defective pixels, the blocks formed in this way varying from one another in size or shape or both depending on the number of the adjacent defective pixels in the block and the location of those defective pixels relative to one another;

storage means for storing the run-length codes; and
correction means for correcting said the defective pixels by using the
peripheral pixels of the defective pixels,

wherein said correction means integrates the run-length codes into region information of the defective pixels which are adjacent to each other, and

wherein said correction means do not use the other defective pixels based on the regional information.

2. - 30. (cancelled)

- 31. (previously presented): An image processing apparatus according to claim 1, wherein said block-forming means expresses the position and the width of the defective pixels adjacent in one direction using run-length coding.
- 32. (previously presented): An image processing apparatus according to claim 1, wherein said correction means takes a pixel region necessary to correct the adjacent defective pixels from an output image of the image pickup means and corrects those defective pixels by using pixels in that pixel region by using the regional information.
- 33. (previously presented): An image processing apparatus according to claim 1, wherein said extraction means judges pixels defective when the value of the pixel signal is within a predetermined range and determines the positional information of the defective pixels.
 - 34. (cancelled)
 - 35. (currently amended): An image processing method comprising:

a first step, of extracting a pixel signal of image pickup means having a plurality of pixels and determining positional information of defective pixels based on the pixel signal;

a second step, of judging whether a plurality of defective pixels are adjacent to each other on the basis of the positional information of defective pixels, and encoding the adjacent defective pixels which are continuously located in one direction by using runlength codes which are information on the plurality's first coordinate values and lengths of the plurality of defective pixels, said second step including defining a block containing the adjacent defective pixels and peripheral, non-defective pixels for correcting the defective pixels, the blocks formed in this way varying from one another in size or shape or both depending on the number of the adjacent defective pixels in the block and the location of those defective pixels relative to one another;

a third step, of storing the run-length codes; and

a fourth step, of correcting the defective pixels by using the peripheral pixels of the defective pixels,

wherein, in said fourth step, run-length codes are integrated into region information of the defective pixels which are adjacent to each other, and

wherein said fourth step is performed without using the other defective pixels based on the region information.

36. (cancelled)

37. (currently amended): A storage medium storing a program which comprises:

a first step, of extracting a pixel signal of image pickup means having a plurality of pixels and determining positional information of defective pixels based on the pixel signal;

a second step, of judging whether a plurality of defective pixels are adjacent to each other on the basis of the positional information of defective pixels, <u>and</u> encoding the adjacent defective pixels which are continuously located in one direction by using runlength codes which are information on the plurality's first coordinate values and lengths of the plurality of defective pixels, said second step including defining a block containing the adjacent defective pixels and peripheral, non-defective pixels for correcting the defective pixels, the blocks formed in this way varying from one another in size or shape or both depending on the number of the adjacent defective pixels in the block and the location of those defective pixels relative to one another;

a third step, of storing the run-length codes; and

a fourth step, of correcting the defective pixels by using the peripheral pixels of the defective pixels,

wherein, in said fourth step, run-length codes are integrated into region information of the defective pixels which are adjacent to each other and

wherein said fourth step is performed without using the other defective pixels based on the region information.